	В	c	D	E
13	Input Name	Default	Inputs	Name
	Input Name	Delagit	- in iputa	Ivalle
14		800.00	405.00	1
	0-5	\$25.00	\$25.00	distcondinv1
	5-200	\$25.00	\$25.00	distcondinv2
	200-650	\$25.00	\$25.00	distcondinv3
	650-850	\$25.00	\$25.00	distcondinv4
	850-2550	\$45.00	\$45.00	distcondinv5
	2550+	\$70.00	\$70.00	distcondinv6
211	Data area in a feet	450	450	distantance
	Pole spacing, feet	150	150	distpolespace
	Pole investment	\$450	\$450	distpoleinv
	Conduit investment per foot	\$1.00	\$1.00	distcondiny
	Manhole investment, per manhole	\$3,000	4.4	distmanhiny
	Buried cable armoring multiplier	1.1	1.1	distarmormult
217	5 / 6/			
218	Copper Feeder Structure Inputs			*
219				
	Aerial Fraction			
	0-5	0.5		cufeedaerial1
	5-200	0.5		cufeedaerial2
	200-650	0.5		cufeedaerial3
	650-850	0.4		cufeedaerial4
	850-2550	0.1		cufeedaerial5
	2550+	0.05		cufeedaerial6
227	i i			
	Buried Fraction			
229		0.45		cufeedburt
	5-200	0.45		cufeedbur2
	200-650	0.45		cufeedbur3
	650-850	0.4		cufeedbur4
	850-2550	0.1		cufeedbur5
	2550+	0.05		cufeedbur6
235				
236	Underground Fraction			
237	<u> </u>	0.05		cufeedug1
	5-200	0.05		cuteedug2
	200-650	0.05		cufeedug3
	650-850	0.2		cufeedug4
	850-2550	0.8		cuf ee dug5
	2550+	0.9		cufeedug6
243			<u> </u>	
	Buried Installation/foot			
245		\$2.00	\$2.00	cufeedburinv1
	5-200	\$2.00	\$2.00	cufeedburinv2
	200-650	\$2.00	\$2.00	cufeedburinv3
	650-850	\$3.00	\$3.00	cufeedburinv4
	850-2550	\$3.00	\$3.00	cufeedburinv5
	2550+	\$25.00	\$25.00	cufeedburinv6
251				
	Conduit Installation/foot			
253	0-5	\$25.00	\$25.00	cufeedcondinv1

User Inputs

	В	С	D	E
13	Input Name	Default	Inputs	Name
14				
	5-200	\$25.00	\$25.00	cufeedcondinv2
	200-650	\$25.00		cufeedcondiny3
	650-850	\$25.00		cufeedcondinv4
	850-2550	\$45.00		cufeedcondinv5
	2550+	\$75.00		cufeedcondinv6
259				
	Manhole Spacing, ft.			
261		800		cufeedman1
262	5-200	800		cufeedman2
263	200-650	800		cufeedman3
264	650-850	800		cufeedman4
265	850-2550	600		cufeedman5
266	2550+	400	400	cufeedman6
267				
	Pole spacing, feet	150	150	
	Pole investment	\$450	\$450) cufeedpoleinv
	Conduit investment per foot	\$1.00	\$1.00	cufeedcondinv
271	Manhole investment, per manhole	\$3,000		cufeedmanhinv
	Buried cable armoring multiplier	1.1	1.1	ufeedarmormul
273				
	Fiber Feeder Structure Inputs			
275				
	Aerial Fraction			
	0-5	0.35		fibfeedaerial1
	5-200	0.35		fibfeedserial2
	200-650	0.35		fibfeedaerial3
	650-850	0,2		fibfeedaerial4
	850-2550	0.1		fibfeedaerial5
282	2550+	0.05		fibfeedaerial6
283	<u></u>			
	Buried Fraction			
285		0.6		fibfeedburl
	5-200	0.6		fibfeedbur2
	200-650	0.6		fibfeedbur3
	650-850	0.6		fibfeedbur4
	850-2550	0.1		fibfeedbur5
	2550+	0.05		fibfeedbur6
291	Understand Constitution			
	Underground Fraction	2.55		Rhinadid
293		0.05		fibfeedug1
	5-200 200-650	0.05		fibfeedug2
	650-850	0.05		fibfeedug3
	850-2550	0.2		fibfeedug4
	2550+	0.9		fibfeedug5 fibfeedug6
299	2999 T	0.9		แบเออนน์นู้ง
	Buried Installation/foot			
301		\$2.00	\$2.00	fibfeedburinv1
	5-200	\$2.00	\$2.00	fibfeedburinv2
774	J-270	\$2.00	\$2.UU	IIDIEEGDGIIIIVZ

	8	С	D	E
13	Input Name	Default	Inputs	Name
14		<u> </u>	1	
	200-650	\$2.00	\$2.00	fibfeedburinv3
	650-850	\$3.00	\$3.00	fibfeedburinv4
	850-2550	\$3.00	\$3.00	fibfeedburinv5
	2550+	\$20.00	\$20.00	fibfeedburinv6
307	2330+	425.55	020.00	IIDIOCCEDE IIII O
308	Conduit Installation/foot			
309		\$25.00	\$25.00	fibfeedcondinv1
_	5-200	\$25.00		fibfeedcondinv2
	200-650	\$25.00		fibfeedcondinv3
	650-850	\$25.00		fibfeedcondinv4
	850-2550	\$45.00		fibfeedcondinv5
314	2550+	\$70.00	\$70.00	fibfeedcondinv6
315				
	Manhole Spacing, ft.			
317	<u> </u>	2,000		fibfeedman1
	5-200	2,000		fibfeedman2
	200-650	2,000		fibfeedman3
	650-850	2,000		fibfeedman4
	850-2550	2,000		fibfeedman5
	2550+	2,000		fibfeedman6
323				
	Buried cable armoring per foot, fiber	\$0.20	\$0.20	ibfeedarmormul
325			`	
326	Misc Loop Investment Inputs			
327				
	Drop investment per line	\$40.00		dropinv
	NID investment per line	\$30.00		NIDInv
	Terminal and splice per line	\$35.00		SpliceInv
331	Average lines per business location	4	4	BusLinesLoc
332	Feeder structure fraction shared w/ intero	0.25	0.25	FeedShare
333				
334	Distribution structure % assigned to teleph	one		
335 336	aerial			AirDistTel
337	buried	0.33 0.33		BurDistTel UgDistTel
338	underground	0.33		OPPISCIES
339	Feeder structure % assigned to telephone			
340	aerial	0.33		AirFeedTel
341	buried	0.33		BurFeedTel
342	underground	0.33		UgFeedTei
343	นแบะเบูเบยกน	0.55		
	SAI Investment, installed			
	Distribution cable size	copper feeder		
346	0	\$500.00		cuSAl1
347	100	\$700.00		cuSAI2
348	200	\$900.00		cuSAi3
349				cuSAI4
	400	\$1.100.00		CUSAIA
350	400 600	\$1,100.00 \$1,300.00		cuSAI5

	8	С	D	E
13	Input Name	Default	Inputs	Name
14				
352	1200	\$1,700.00		cuSAI7
353	1800	<u></u>		CUSAI8
354	2400	<u> </u>		cuSAI9
355	3000	\$2,300.00		cuSAI10
356	3600			cuSAI11
357	3000	02,000.00		
358	Distribution cable size	fiber feeder		
359	0	\$2,500.00	A STATE OF THE STA	fibSAI1
360	100	\$2,700.00		fibSAI2
361	200	\$2,900.00		fibSAI3
362	400	\$3,100.00		fibSAI4
363	600	\$3,300.00		fibSAI5
364	900	\$3,500.00		fibSAI6
365	1200	\$3,700.00		fibSAI7
366	1800	\$3,900.00		fibSAI8
367	2400	\$4,100.00		fibSAI9
368	3000	\$4,300.00		fibSAI10
369	3600	\$4,500.00		fibSAI11
370				
371	Digital Loop Carrier Inputs			
372				
	SLC (TR-303)			
	site, housing, and power per remote termi	\$3,000.00		SLChouse
	maximum lines	672	672	SLCmaxines
	remote terminal fill factor	0.9	0.9	
377	common equipment investment	\$42,000.00		SLCcomm
	channel unit investment per line	\$75.00		SLCchan
379	DS-0s per fiber	\$2,016.00	\$2,016.00	
380	Fibers per remote terminal	4	4	
381				
382	AFC			
383	site, housing, and power per remote termi	\$2,500.00		AFChouse
384	maximum lines	100		AFCmaxlines
	remote terminal fill factor	0.9		AFCfill
	common equipment investment	\$10,000.00		AFCcomm
	channel unit investment per line	\$150.00		AFCchan
	DS-0s per fiber	2,016		
	Fibers per remote terminal	4	4	
390				
	Fiber feeder distance threshold, ft. (feeder	9,000		
392				
393	Signaling Parameters			
394				
395	STP Link Capacity	720		STPcap
	STP Maximum Fill	0.8	0.8	STPfill
	STP Investment, per pair, fully equipped	\$5,000,000.00		STPInv
	STP common equipment investment, per	\$1,000,000.00		STPcomm
	Link Termination, both ends	\$900.00		LinkTerm
أحسوب	Signaling Link Bit Rate	56000	560001	

B C D 13 Input Name Default Inputs 14 Link Occupancy 0.4 402 C Link Cross-Section 24	Name LinkOcc LinkCross
14 401 Link Occupancy	LinkOcc
401 Link Occupancy 0.4	
1 402 IC LIIK CIUSS-36CUUII : 27:	a instince
403 ISUP messages per interoffice BHCA 6	ISUPmsgs
404 ISUP message length, bytes 25 25	
	TCAPmsgs
406 TCAP message length, bytes 100 100	
407 Fraction of BHCA requiring TCAP 0.1	TCAPFrac
408 SCP investment per transaction per secon \$20,000.00	SCPInv
409	
410	
411 Misc Inputs	
412	
413 Operator position parameters	
414 Investment per position \$3,500.00	opiny
415 Maximum utilization per position, CCS 27	opccs
416 Operator intervention factor 10 10	
417 Operator position remote distance, mi.	opdist
418	Operat
419 Other	
420 DS0/DS1 crossover 24	DS0cross
421 DS1/DS3 crossover 28	DS1cross
422	50.000
423 Public Telephone investment per station \$1,200.00	Publny
424	
425 Transport Investment	
426	
427 Terminal Investment	
428 Number of Fibers 24 24	termfib
429 FOT capacity, DS-3s 12 12	
430 FOT fill 0.8 0.8	
431 FOT, installed \$43,000.00 \$43,000.00	FOTinst
432 Pigtails \$60.00 \$60.00	
433 Panel \$1,000.00 \$1,000.00	panel
434 EF&I, per hour \$55.00 \$55.00	
435 EF&I units 32 32	
436	
437 Medium Investment	
438 Fraction of structure assigned to telephone 0.33	telfrac
439 Fraction of structure shared with feeder 0.25 0.25	
440 Distance, mi. 41 41	
441 Regenerator spacing, mi. 40 40	
442 Regenerator investment, installed \$15,000.00 \$15,000.00	
443 Fiber Cable investment per foot \$2.00 \$2.00	
444 Placement \$2.00 \$2.00	
445 Splice Spacing, ft. 20000 20000	
446 Splice Cost \$15.00 \$15.00	
447 Trenching per foot \$45.00 \$45.00	trench
448 Resurfacing per foot \$10.00 \$10.00	resurf
449 Conduit per foot \$4.00 \$4.00	condft

—	В	C	D	E
13	Input Name	Default	Inputs	Name
14				
	Number of tubes	2	2	tubes
	Manhole investment	\$5,000.00		manhinv
	Manhole spacing	1000		manhsp
	Buried installation per foot	\$5.00	\$ 5.00	burinst
	Pole investment			poleinv
	Pole spacing	150	150	polesp
	Underground percent	35.00%		ugfrac
	Buried percent	50.00%		burfrac
	Aerial percent	0.15		airfrac
459				
460	Call Attempts & DEMs			
461				
	Call Attempts			
	Local	1		CALocal
	IntraLata Intrastate	2		CARaRa
	InterLata Intrastate	3		CAErRa
	InterLata Interstate	4		CaErEr
	Call Completion Fraction	0.70		CallComp
468				
	DEMs			3
	Local	1		DEMsLocal
	Intrastate	3		DEMsintra
	Interstate	5		DEMsinter
	Local bus/res DEMs	1.1	1.1	LocalDF
	Intrastate bus/res DEMs	2	2	IntraDF
	Interstate bus/res DEMs	3	3	InterDF
476				
477	Line Counts			
478				
	Residential	10	1,593,754	LCRes
	Business	20	632,968	LCBus
	Special Access	30	549,733	LCSA
	Public	40	32,539	LCPub
483				
	Cable Costs			
485	Feeder			
486	Underground			
487	Cable Size	Cost UG		
488	4200	74.25	74.25	FeedUG42
489	3600	63.75	63.75	FeedUG36
490	3000	53.25	53.25	FeedUG30
491	2400	42.75	42.75	FeedUG24
492	1800	32.25	32.25	FeedUG18
493	1200	21.75	21.75	FeedUG12
494	900	16.5	16.5	FeedUG9
495	600	11.25	11.25	FeedUG6
496	400	7.75	7.75	FeedUG4
497	200	4.25	4.25	FeedUG2
498	100	2.5	2.5	FeedUG1

	В	C	D	Ε
13	Input Name	Default	Inputs	Name
14				
499	Aerial			
500		Cost Aerial		
501	4200	·	74.25	FeedA42
502	3600		63.75	FeedA36
503	3000		53.25	FeedA30
504	2400		42.75	FeedA24
505	1800		32.25	FeedA18
506	1200			FeedA12
507	900		16.5	FeedA9
508	600		11.25	FeedA6
509	400		7.75	FeedA4
510	200	<u> </u>	4.25	FeedA2
511	100		2.5	FeedA1
512	100	2.5	2.3	1 304/1
513	Distribution			
514	Underground			
515	Cable Size	Cost UG		
516	3600		63.75	DistUG36
517	3000	L	53.25	DistUG30
518	2400	·	42.75	DistUG24
519	1800		32.25	DistUG18
520	1200		21.75	DistUG12
521	900		16.5	DistUG9
522	600		11.25	DistUG6
523	400	7.75	7.75	DistUG4
524	200	4.25	4.25	DistUG2
525	100	2.5	2.5	DistUG1
526	50	1.625	1.625	DistUG5
527	25	1.19	1.19	DistUG25
528	Aerial			
529	Cable Size	Cost Aerial		
530	3600	1	63.75	DistA36
531	3000		53.25	DistA30
532	2400		42.75	DistA24
533	1800		32.25	DistA18
534	1200		21.75	DistA12
535	900	<u> </u>	16.5	DistA9
536	600	l	11.25	DistA6
537	400	7.75	7.75	DistA4
538	200	4.25	4.25	DistA2
539	100	2.5	2.5	DistA1
540	50	1.625	1.625	DistA5
541	25	1.19	1.19	DistA25
542				
	Fiber			
544	Underground			
545	Cable Size	Cost UG		
546	216	13.1	13.1	FiberUG216
547	144	9.5	9.5	FiberUG144

	В	С	D	E
13	Input Name	Default	Inputs	Name
	Input Halle	Doieuit	II iputa	1461116
14			3.4	275 c d 1000
548	96	7.1	7.1	FiberUG96
549	72		5.9	FiberUG72
550	60		5.3	FiberUG60
551	48		4.7	FiberUG48
552	36	4.1	4.1	FiberUG36
553	24		3.5	FiberUG24
554	18		3.2	FiberUG18
555	12	2.9	2.9	FiberUG12
556	Aerial	Cost April		
557		Cost Aerial 13.1	42.4	FiberA216
558	216 144	9.5	13.1 9.5	FiberA144
559 560	96	7.1	7.1	FiberA96
561	72	5.9	5.9	FiberA90
562	60	5.3	5.3	FiberA60
563	48		4.7	FiberA48
564	36		4.1	FiberA36
565	241		3.5	FiberA24
566	181	3.2	3.2	FiberA18
567	12		2.9	FiberA12
568				
569	_		A second	
570				
	Fill Factors			
	Cable			
	Distribution			
574		0.50		
	5-200	0.55		
	200-650	0.60		
	650-850	0.65		
	850-2550	0.70		
	2550+	0.75		
580	Transport Investment			
	Transport Investment			
	Local Direct Routes			
	Terminal Investment	04	24	
	Number of Fibers FOT capacity, DS-3s	24	12	
	FOT fill	0.8	0.8	
	FOT, installed	\$43,000.00	\$43,000.00	
	Pigtails	\$60.00	\$60.00	
	Panel	\$1,000.00	\$1,000.00	
	EF&I, per hour	\$55.00	\$55.00	· · · · · · · · · · · · · · · · · · ·
	EF&I units	32	32	
592				
	Medium Investment			
	Fraction of structure assigned to telephone	0.33		
595		0.25	0.25	
596		41	41	
220			71	

	В	C	D	E
13	Input Name	Default	Inputs	Name
14				
	Regenerator spacing, mi.	40	40	, , , , , , , , , , , , , , , , , , , ,
	Regenerator investment, installed	\$15,000.00	\$15,000.00	
	Fiber Cable investment per foot	\$2.00	\$2.00	
	Placement	\$2.00	\$2.00	
601	Splice Spacing, ft.	20000	20000	
602	Splice Cost	\$15.00	\$15.00	
603	Trenching per foot	\$45.00	\$45.00	
604	Resurfacing per foot	\$10.00	\$10.00	
	Conduit per foot	\$4.00	\$4.00	
	Number of tubes	2	2	
607	Manhole investment	\$ 5,000.00		
	Manhole spacing	1000		
	Buried installation per foot	\$5.00	\$5.00	
	Pole investment	450	450	
	Pole spacing	150	150	
	Underground percent	35.00%		
	Buried percent	50.00%		
	Aerial percent	0.15		
615 616				
	—			
	Transport Investment			
	intraLATA direct routes			
	Terminal Investment			
	Number of Fibers	24	24	
	FOT capacity, DS-3s FOT fill	12	12	
	FOT, installed	0.8	0.8	
	Pigtails	\$43,000.00	\$43,000.00	
	Panel	\$60.00	\$60.00	
	EF&I, per hour	\$1,000.00 \$55.00	\$1,000.00	
	EF&I units		\$55.00 32	
628	Erai units	32	32	
	Medium Investment			
	Fraction of structure assigned to telephone	0.33		· · · · · · · · · · · · · · · · · · ·
	Fraction of structure shared with feeder	0.25	0.25	<u> </u>
632	or sudwide stated with leader	0.25	0.23	
	Regenerator spacing, mi.	40	40	
	Regenerator investment, installed	\$15,000.00	\$15,000.00	
	Fiber Cable investment per foot	\$2.00	\$2.00	
	Placement	\$2.00	\$2.00	
	Splice Spacing, ft.	20000	20000	
	Splice Cost	\$15.00	\$15.00	
	Trenching per foot	\$45.00	\$45.00	
	Resurfacing per foot	\$10.00	\$10.00	
	Conduit per foot	\$4.00	\$4.00	
642	Number of tubes	2	2	
643	Manhole investment	\$5,000.00		
	Manhole spacing	1000		
645	Buried installation per foot	\$5.00	\$5.00	

User Inputs

	В	С	D	E
13	Input Name	Default	Inputs	Name
14				
	Pole investment	450	450	
صنحص	Pole spacing	150	150	
	Underground percent	35.00%	to the transfer of the transfe	
	Buried percent	50.00%		
	Aerial percent	0.15		
651				
652				
653	Transport Investment			
654	Access Direct Routes			
	Terminal Investment			
656	Number of Fibers	24	24	
657	FOT capacity, DS-3s	12	12	
	FOT fill	0.8	0.8	
	FOT, installed	\$43,000.00	\$43,000.00	
	Pigtails	\$60.00	\$60.00	
	Panel	\$1,000.00	\$1,000.00	
	EF&I, per hour	\$55.00	\$55.00	
	EF&I units	32	32	
664				
	Medium Investment	0.00		
667	Fraction of structure assigned to telephone	0.33		
668				
	Bassassias assiss mi	40	40	
	Regenerator spacing, mi.	15000	40 15000	
	Regenerator investment, installed Fiber Cable investment per foot		73000	
	Placement	2 2	2	
	Splice Spacing, ft.	\$20,000.00	\$20,000.00	
	Splice Cost	\$15.00	\$15.00	
	Trenching per foot	\$45.00	\$45.00	
	Resurfacing per foot	10	10	
	Conduit per foot	\$4.00	\$4.00	
	Number of tubes	\$2.00	\$2.00	
	Manhole investment	\$5,000.00		
	Manhole spacing	\$1,000.00		
	Buried installation per foot	5	5	
	Pole investment	\$450.00	\$450.00	
	Pole spacing	150	150	
	Underground percent	\$0.35		
	Buried percent	0.5		
	Aerial percent	0.15		

	D	E	F	G	Н
1	1995	COMPANY NAME:	swmo		
2					
	OTHER TAXES & UNCOLLECTIBLES	CALCULATION	EXPENSES		NET REVENUES
4					
5		OPERATING STATE & LOCAL INCOME TAX-NET	13,821		
		OPERATING OTHER TAXES	87,726		
1		UNCOLLECTIBLE REVENUES	<u> </u>		12,339
8	530	NET REVENUES			1,475,607
9		GROSS REVENUES (5300 + 530)			1,487,946
10		UNCLL/GROSS REV_			0.008293
	\	UNCLL RETAIL RATE			1.09%
12	(4040(p)/(50825084)	UNCLL WHOLESALE RATE			0.27%
13			- EVDE 1959	D MARGINET	EVENTUATE TO
	PLANT SPECIFIC OPERATIONS EXPE	NSES	A. EXPENSES	B. INVESTMENTS	C. EXP/INV (A/B)
15	TPIS GENERAL SUPPORT	I AND			
16		LAND			0.000000
17	2121	BUILDINGS TOTAL LAND & BUILDINGS	-		
18		TOTAL LAND & BUILDINGS			-0.004425
19		MOTOD VEHICLES			
20		MOTOR VEHICLES AIRCRAFT			0.029686
21			0	0	#VALUE!
22 23		SPECIAL PURPOSE VEHICLES GARAGE WORK EQUIPMENT	Ų.	0	#VALUE 1 0.072993
23		OTHER WORK EQUIPMENT	_		0.004630
24		FURNITURE	-		-0.132164
25		OFFICE EQUIPMENT	-		0.007434
26		GENERAL PRUPOSE COMPUTERS			-0,008651159
27		TOTAL LAND & SUPPORT ASSETS	(6,859)	1,182,930	-0.005798314
28 29	2110	TOTAL DAND & SUFFURT ASSETS	(0,033)	1,102,830	-0.003780314
30	TPIS - CENTRAL OFFICE SWITCHING		-		
	TPIS - CENTRAL OFFICE SWITCHING		- 		
31	2211	ANALOG ELECT SWITCH			
32 33		DIGITAL ELECTRONIC SWITCHING			
34		OPERATOR SYSTEMS	1,834	23,097	0.079404252
35	2220	- Control of the cont	†	1 20,00	1
	TPIS - CENTRAL OFFICE TRANSMIS	SION			
37	11 10 - OLITITIAL OF FIOL HARMONIO	1.	 		
38	2232	CIRCUIT EQUIPMENT			
39		TRANSMISSION			0.026422036
40					
41	TPIS - INFORMATION ORIGITERM				
42	-	-			
43	2311	STATION APPARATUS			
44	2321	CUSTOMER PREMISES WIRING		0	*VALUE!
133	1021				

2341 LARGE PRIVATE BRANCH EXCHANGE

2351 PUBLIC TEL TERMINAL EQUIPMENT

F

G

D

45

46

H

	D	E	F	G	H
89					
90		CALL COMPLETION SERVICE	12,299		CALC
91	6622	NUMBER SERVICES	34,788		CALC
92	6623	CUSTOMER SERVICES	87,530		CALC
93	6620	TOTAL SERVICES EXPENSES	134,617		CALC
94					
95	700	TOTAL CUSTOMER OPERATIONS EXPENSE	180,554		CALC
96		(6610 + 6620)			
97					
	CORPORATE OPERATIONS EXPENS	ES	A. EXPENSES	B. REVENUES	C. EXP/REV (A/B)
100	2	#	=	=	
100		EXECUTIVE	9,139		CALC
101		PLANNING	1,684		CALC
102	6710	TOTAL EXECUTIVE & PLANNING	10,803		CALC
103					
104		ACCOUNTING & FINANCE	10,859		CALC
105		EXTERNAL RELATIONS	17,669		CALC
106		HUMAN RESOURCES	16,267		CALC
107		INFORMATION MANAGEMENT	36,044	· · · · · · · · · · · · · · · · · · ·	CALC
108		LEGAL	4,206		CALC
109		PROCUREMENT	4,107	<u> </u>	CALC
110		RESEARCH & DEVELOPMENT	6,888	ļ	CALC
111		OTHER GENERAL & ADMINISTRATIVE	31,093		CALC
112	6720	TOTAL GENERAL & ADMINISTRATIVE	127,134		CALC
113				ļ 	
114		TOTAL CORPORATE OPERATIONS EXPENSE	137,937		CALC
115		(6710 + 6720 + 6790)			
116	720	TOTAL OPERATING EXPENSES	~		CALC
117	720	TOTAL OPERATING EXPENSES		 	CALC
118 119		DEM - LOCAL	0		
120		DEM - INTRASTATE	- 0	<u> </u>	
121		DEM - INTRASTATE	0		
122		DEM - MICKOINIE			
123		MESSAGES - INTRALATA	177,143		
124		MESSAGES - INTERLATA	905,832	 	
125		INCOMES - BITEING TITE		<u> </u>	
	4308 (EC)	LOCAL CALL ATTEMPTS	9,394,922		
127	1001201				
128		LINES - BUSINESS	632,968		
129		RESIDENTIAL	1,593,754		
130		PUBLIC	32,539		
131		SPECIAL	549,733		
132		TOTAL	2,809,037	1	
132			2,809,037		

	D	E	F I	G	н
133		END USER		109,572	
134		SWITCHED ACCESS		162,659	
135		SPECIAL ACCESS		81,145	
136		TOTAL INTER ACCESS		353,376	
137		10114		000,070	
138	5084	END USER			
138 139	5084	SWITCHED ACCESS			
140		SPECIAL ACCESS		73,279	
141		STATE ACCESS		73,279	
142					
142 143		TOTAL ACCESS REVENUES		426,655	
144					
145		LD MESSAGE REVENUE			
146	5100	INTERSTATE MESSAGE			
147	5100	INTRASTATE MESSAGE			
148	5100	INTERSTATE CALLING PLAN			
148 149	5100	INTRASTATE CALLING PLAN			
150 151 152 153		LD MSG REV (CLASS A)		147,553	
151					
152		UNIDIRECTIONAL LD			
153	5110	INTERSTATE			
154		INTRASTATE			
154 155 156 157		TOTAL		544	
156					× .
157					
158					
159					
160	5120	LD PRIVATE NETWORK		7,534	
161					
162		OTHER LD			
163	5160	INTERSTATE			
164		INTRASTATE			
165		TOTAL		6,037	
166		TOTAL LO ANTONIO DI CONTROLI			
167		TOTAL LD NETWORK REVENUE			
168		INTERSTATE			
169		INTRASTATE TOTAL		161,668	
170		IOIAL		101,008	
171		BASIC LOCAL SERVICE			
172	5004	BASIC LOCAL SERVICE BASIC AREA		492,345	
173		OPTIONAL EXTEND AREA		492,345	
174		CELLAR MOBIL		10,321	
175		OTHER MOBIL SVC		10,321	
176	5004	OTHER MOBIL SVC			

	D	E	F	G	Н
221		•	_	_	_
221 222		ECONOMIC LIFE			
	(2422,21,22,23,41)	FEEDER			
224	(2422,21,22,23,41)	DISTRIBUTION			,
225		BUILDINGS			
226	2232	DLC ELECTRONIC EQUIPMENT			
225 226 227	2212	EO SWITCHING			
228	2212	TANDEM SWITCHING			
229	2220	OS POSITIONS			
230	2220	OS TANDEM			
231 232	2232	TRANSMISSION SYSTEMS			
232	2351	PUBLIC TELEPHONE EQUIPMENT			
233	2122,2124	FURNITURE + GP COMPUTERS			
234 235					
	DATA SOURCE		sum check		
237	ARMIS 4303ARMIS 4303ARMIS 4303	Jan 1995 to Dec 1995Jan 1995 to Dec 1995		4954954954954954954	95495495495495495
237 238	ARMIS 4303ARMIS 4303ARMIS 4303 ARMIS 4304	Jan 1995 to Dec 1995Jan 1995 to Dec 1995 JAN 1995 TO DEC 1995	495495495495495 9010	9010	
237 238 239	ARMIS 4303ARMIS 4303ARMIS 4303 ARMIS 4304 ARMIS 4308	JAN 1995 TO DEC 1995 swmo95	495495495495495		
237 238 239 240	ARMIS 4303ARMIS 4303ARMIS 4303 ARMIS 4304	JAN 1995 TO DEC 1995	495495495495495 9010	9010	
237 238 239 240 241	ARMIS 4303ARMIS 4303ARMIS 4303 ARMIS 4304 ARMIS 4308 DEM	JAN 1995 TO DEC 1995 swmo95	495495495495495 9010	9010	
237 238 239 240 241 242	ARMIS 4303ARMIS 4303ARMIS 4303 ARMIS 4304 ARMIS 4308 DEM	JAN 1995 TO DEC 1995 swmo95	495495495495495 9010	9010	
237 238 239 240 241 242 243	ARMIS 4303ARMIS 4303ARMIS 4303 ARMIS 4304 ARMIS 4308 DEM	JAN 1995 TO DEC 1995 swmo95	495495495495495 9010	9010	
237 238 239 240 241 242 243 244	ARMIS 4303ARMIS 4303ARMIS 4303 ARMIS 4304 ARMIS 4308 DEM	JAN 1995 TO DEC 1995 swmo95	495495495495495 9010	9010	
237 238 239 240 241 242 243 244 245	ARMIS 4303ARMIS 4303ARMIS 4303 ARMIS 4304 ARMIS 4308 DEM	JAN 1995 TO DEC 1995 swmo95 No DEM data for 1995 =	495495495495495 9010 (EJ)	9010 (EJ)	
237 238 239 240 241 242 243 244 245	ARMIS 4303ARMIS 4303ARMIS 4303 ARMIS 4304 ARMIS 4308 DEM	JAN 1995 TO DEC 1995 swmo95 No DEM data for 1995 = swtx95	495495495495495 9010 (EJ)	9010 (EJ)	
237 238 239 240 241 242 243 244 245 246 247	ARMIS 4303ARMIS 4303ARMIS 4303 ARMIS 4308 DEM	JAN 1995 TO DEC 1995 swmo95 No DEM data for 1995 =	495495495495495 9010 (EJ)	9010 (EJ)	
237 238 239 240 241 242 243 244 245 246 247 248	ARMIS 4303ARMIS 4303ARMIS 4303 ARMIS 4308 DEM	JAN 1995 TO DEC 1995 swmo95 No DEM data for 1995 = swtx95	495495495495495 9010 (EJ)	9010 (EJ)	
237 238 239 240 241 242 243 244 245 246 247 248	ARMIS 4303ARMIS 4303ARMIS 4303 ARMIS 4308 DEM	JAN 1995 TO DEC 1995 swmo95 No DEM data for 1995 = swtx95	495495495495495 9010 (EJ)	9010 (EJ)	
237 238 239 240 241 242 243 244 245 246 247 248	ARMIS 4303ARMIS 4303ARMIS 4303 ARMIS 4304 ARMIS 4308 DEM	JAN 1995 TO DEC 1995 swmo95 No DEM data for 1995 = swtx95	495495495495495 9010 (EJ)	9010 (EJ)	

HATFIELD MODEL SENSITIVITY ANALYSIS LOOP COST - SWBT TEXAS

Purpose of the Sensitivity Analysis

The costs for loops calculated by the Hatfield model and Southwestern Bell Telephone (SWBT) cost studies are significantly different - \$11.62 versus \$18.06 (SWBT - forward looking economic cost studies; SWBT actual loop costs are \$27.81). Differences in cost estimates are caused by two factors:

Differences in the structure of cost models. These may include,

Differences in costing methods (e.g., computing plant costs per unit of maximum useable capacity versus per unit of expected, average utilization).

Differences in cost elements (e.g., including main distributing frame costs with end office switching costs versus loop costs).

Differences in the type of source data used for costing (e.g., pole and conduit resource costs versus factors which express pole and conduit investment relative to cable investment).

Differences in input (source data) to the cost models (e.g., construction cost data, mix of plant types, plant fill factors and others.)

Sensitivity analyses typically are used to evaluate the effect of changes in input to a cost model on the model result. For example, the most important input values to a cost model can be identified by varying input values to the model, one at a time, and determining which input values cause the greatest change in the result.

Sensitivity analyses also can be used to isolate the effect of differences in input between two cost models. In this case, the input from one model is used in the other, preferably one at a time, to determine the effect of input value differences on model results.

If the two models produce the same or similar results, having modified all input to be the same, then it is reasonable to conclude any differences in the structure of the models are immaterial. If the models continue to produce significantly different results, differences in

The loop monthly costs include loadings for "common costs." The Hatfield model cost includes a loading of 10% of direct costs for "variable overheads." The SWBT cost includes a loading of 15.47% of direct costs for prospective joint and common costs. One of the sensitivity analyses determines the change in the Hatfield model cost from substituting SWBT's 15.47% loading for Hatfield's 10% loading.

model structure are significant. Changes in the structure of one model would have to be made to identify the effect of structural differences on model results. Structural changes, though, may not be practical depending on the size and complexity of the cost models.

The sensitivity analyses of the Hatfield model have three purposes: First, to determine (to the extent possible) the effect on loop costs of using SWBT input data in the Hatfield model. Secondly, to identify the most important differences in input values. Third, to conclude whether significant structural differences in the Hatfield and SWBT models remain which cause differences in cost estimates.

Results of Unbundled Sensitivity Analyses

The results of fifteen sensitivity analyses run on the Hatfield model are illustrated below in Figure 1.

Figure 1

HATFIELD MODEL SENSITIVITY ANALYSIS LOOP COST - SWBT TEXAS

<u> </u>				
	Cumulative	Cumulative Change *		
CHANGE	Loop Cost	Cumulative		
		Difference		
Base Hatfield Run	\$11.62	\$0.00		
1. Staff Changes	\$17.41	\$ 5.79		
2. SWBT Depreciation/Capital Costs	\$20.89	\$ 9.27		
3. SWBT Overhead Factor	\$21.62	\$10.00		
4. SWBT Fill Factors	\$22.07	\$10.45		
5. SWBT Structure Assign to Telephone	\$23.82	\$12.20		
6. SWBT Cable Premise Term./SAI Costs	\$24.68	\$13.06		
7. SWBT Switching Costs	\$24.50	\$12.88		
8. SWBT Network Operations & CO	\$25.12	\$13.50		
Expense Factors				
9. ARMIS Adjustments	\$24.36	\$12.74		
10. SWBT Signalling Parameters	\$24.34	\$12.72		
11. SWBT Miscellaneous Expense Factors	\$23.95	\$12.33		
12. SWBT Wirecenter parameters	\$23.97	\$12.35		
13. SWBT IO and Tandem parameters	\$23.64	\$12.02		
14. Miscellaneous Items	\$23.28	\$11.66		
15. SWBT Cable Mix	\$26.53	\$14.92		

NOTES: * THE CUMULATIVE CHANGE CAN NOT BE DETERMINED BY SUMMING THE AMOUNT OF CHANGE ASSOCIATED WITH INDIVIDUAL CHANGES DUE TO THE INTERACTIONS OF THE CHANGED VARIABLES.

Differences in Input

The changes made to the Hatfield Model are indicated on the table below by reference to the line number. The actual values for all of the changes for the cumulative run # 15 are shown on Exhibit 1. The changes are divided into two basic categories, one for those change recommended by the Texas PSC Staff and additional changes recommended by SWBT. The changes recommended by the Texas Staff are shown on Exhibit 2.

CH	ANGE	Lines Changed
Ba	se Hatfield Run	
1.	Staff Changes	17-29,32-36,41,68-73, 80,376,385,401,374, 377, 378,383,384,386,387, 335- 337,340-342, 438, 55,391
2.	SWBT Depreciation/Capital Costs	17-29, 32-36
3.	SWBT Overhead Factor	41
4.	SWBT Fill Factors	68-73, 80, 376,385,401
5.	SWBT Structure Assign to Telephone	335-337,340-342,438
6.	SWBT Cable Premise Term./SAI Costs	488-498, 501-511, 516-527, 530-541, 546-554, 558-567, 328-330, 346-358, 359-369
7.	SWBT Switching Costs	81, 83, 99-101, 103-105, 11
8.	SWBT Network Operations & CO Expense Factors	47, 48
9.	ARMIS Adjustments	ARMIS Data
10.	SWBT Signalling Parameters	395, 397-399, 402, 403, 407
11.	SWBT Miscellaneous Expense Factors	42-46, 51, 52
12.	SWBT Wirecenter parameters	143-147, 157-161, 164- 168
13.	SWBT IO and Tandem parameters	114-116, 117-119, 123-126, 131, 132
14.	Miscellaneous Items	414, 415, 417, 420, 421, 431, 458-458,467, 470-472
15.	SWBT Cable Mix	173-178, 181-186, 189-194, 221-226, 229-234, 237-242, 277-282, 285-290, 293-298

The various inputs changes can be categorized into the groups shown below:

Depreciation Lives/Capital Cost

The Hatfield model uses plant service lives for cable and wire facilities and circuit equipment which are longer than those expected by SWBT. In addition, the Hatfield model does not recognize net salvage values for cable and wire facilities. To adjust the Hatfield model input, the depreciation lives were all recomputed to produce the same depreciation rate as the economic lives with net salvages

expected by SWBT. These lives then were substituted for those in the Hatfield model.

. 1

Hatfield model values for debt ratio, cost of debt and the cost of money were changed to those used by SWBT. Since SWBT's cost of money figure for Texas regulatory purposes is slightly higher than the Hatfield model (10.93% versus 10.01%), the effect was to raise monthly loop costs. For the model to be used in the interstate jurisdiction, further adjustments would be necessary to reflect the FCC authorized cost of money as identified below:

	HATFIELD	FCC
Debt Percent	42%	44.2%
Cost of Debt	7.7%	8.8%
Cost of Equity	11.9%	13.2%

The combination of corrected economic depreciation lives and realistic capital cost information is a major contributor to the difference between the incorrect Hatfield Model and SWBT cost study information or actual costs.

Overhead Factor

One of the most important changes was to increase the "variable overhead" factor from 10% to 15.47%. This increases the level of common costs allocated to the monthly loop cost.

Fill Factors

Hatfield fill factors for distribution cable and digital loop carrier systems were modified to yield the same effective utilization levels as used in the SWBT study. Although feeder cable fill factors can be modified in the Hatfield model, it was not possible to compute the effective utilization for feeder cable in the Hatfield model. Consequently, it was not possible to adjust feeder cable fill to match the SWBT value. Lowering fill factors for distribution cable and digital loop carrier systems to SWBT levels raises the Hatfield monthly loop cost.

Structures Assigned to Telephone

Input to the Hatfield model was changed to reflect that no conduit or buried cable placement costs are attributed to other utilities. The portion of aerial cable attributed to other utilities was reduced from 67% to 50% to reflect the amount of poles used in SWBT's study. The net effect of these changes increased the overall loop cost. While the Staff adjustment increased the buried cable telephone assignment to 100% and SWBT's adjustment increased the underground cable to 100% the aerial percentage was decreased to 50% The estimated combined effect produces an estimated 30% increase in the cost of the

loop. This is a major difference between the Hatfield Model and SWBT cost studies or actual data

. 1

Construction Costs

A key input to the calculation of monthly loop costs is the cost of material, equipment, labor, etc. used to construct loop facilities. The four most important categories of construction cost input for loops are cable costs per foot, buried cable placement labor costs, pole and conduit cost data, and digital loop carrier cost data. SWBT cost data for these categories were substituted for Hatfield model data. Other construction cost data, such as serving area interface (SAI) also were changed. Other non-loop related costs were also changed in this analysis. Although these non-loop cost changes do not directly change the calculated loop investment values, it does impact the allocation of the network and overhead related expenses in the Hatfield Model.

ARMIS Input²

Two adjustments were made to the ARMIS investment and expense input to the Hatfield model. First, embedded investments were restated on a higher, current cost basis. Since network expenses are computed based on the ratio of expenses to investment, this had the effect of lowering network expense factors and the resulting network expenses. The second adjustment was to eliminate the effect of the compensable property adjustment, which in many cases is reflected in Texas ARMIS reported expenses. This is necessary because that while the expense, return and tax amounts are charged to the benefiting state, the investment remains on the host state's reports. Thus, any ratio (i.e. network expense factors) developed with investment in the denominator must eliminate the compensable property adjustment from the numerator.³

Mix of Cable Types

In this sensitivity analysis, the proportions of prospective aerial, buried and underground cable plant were changed in the Hatfield model to those used by SWBT. For distribution feeder and fiber cable, there was a reduction in the use of aerial cable and increases in buried and underground cable.

² ARMIS Inputs (and other loading factors) were adjusted to reflect the differences in the development of Annual Cost Factors.

Expense amounts on the ARMIS reports are net of transfers to other states for expenses and capital costs on plant in Missouri used to provide services to other states. Since capital cost transfers are charged to expense accounts, the effect is to lower the expense amounts below the level of actual expenses to repair and maintain associated plant. In some cases, expense account balances actually are negative. The Hatfield study does not recognize this.

Differences in the Structure of the Cost Models

Since the cumulative result of the sensitivity analyses (\$26.53) is substantially different from SWBT's monthly cost estimate \$18.06 (including joint and common costs), this indicates there are significant structural differences in the models. Some of these include the way in which distribution cable distances are calculated, the method for computing poles and conduit investment, the exclusion of the main distributing frame from loop costs in the Hatfield model, and the way in which premises termination investment is calculated.

. 1

Conclusions

Based on the sensitivity analyses, the most significant input value differences between the SWBT and Hatfield models for loop costs appear to be in the areas of construction costs, especially digital loop carrier costs, depreciation lives/capital costs, and the assignment of structures investment to other utilities. Beyond these differences in input, there are significant differences in model structure which contribute to differences in loop costs.

Hatfield Model Sensitivity Analysis SWBT - Texas

	В	С	D	E
12				Variable
13	Input Name	Default	Inputs	Name
14	an partition.			
15	Cost of Capital Factors			
16	Depreciation Lives			
17	Loop Distribution	20	12.4	DistLife
18	Loop Feeder	20	12.2	FeedLife
19	Loop Concentrator	10	5	ConcLife
20	Wire Center	37	37.6	WireLife
21	End Office Switching	14.3	9.2	EOLife
22	Tandem Switching	14.3	9.2	TandLife
23	Transport Facilities	19	24.8	TransLife
24	Operator Systems	8	13	OpLife
25	STP	14	9.2	STPLife
26	SCP	14	9.2	SCPLife
27	Links	19	13	LinkLife
28	Public Telephones	9	7.6	PubLife
29	General Support	7	8.7	GenLife
30				
31	Cost of Capital			
32	Debt Percent	45.00%	42.00%	DebtP
33	Cost of Debt	7.70%	8.07%	DebtCost
34	Cost of Equity	11.90%	13.00%	EquityCost
35	Equity Percent	55.00%	58.00%	
36	Overall Cost of Capital	10.01%	10.93%	
37				
38				
39	Misc Expense Factors			
40				
41	Variable Overhead Factor	10.00%	15.47%	VarOvhd
42	Federal Income Tax Rate	40.00%	35.00%	FITRate
	Other Taxes Factor	5.00%	5.88%	OtherTax
44	Operating State and Local Income Tax Fa	1.00%	0.95%	StateIT
	Billing/Bill Inquiry per line per month	\$1.22	\$2.37	Billing
	Directory Listing per line per month	\$0.15	\$0.24	Directory
	Forward-Looking Network Operations Fac		100.00%	NetOps
_	Central Office Switching Expense Factor	2.69%	9.86%	COSwitch
	End Office Traffic-Sensitive Fraction	70.00%	70.00%	EOTraffic
	per-line Monthly LNP Cost	\$0.25	\$0.25	LNP
	atternative CO switching factor	0.0269	0.0986	ACOSF
	alternative circuit equipment factor	0.0153	0.0294	ACEF
	Carrier-carrier customer service per line p	\$1.56	\$1.56	CarCar
	NID expense per line per year	\$3.00	\$3.00	NIDExp
	Swithc line circuit offset per DLC line	\$35.00	\$8.75	CircOffs
56				

Hatfield Model Sensitivity Analysis SWBT - Texas

	В	С	D	E
12				Variable
13	Input Name	Default	Inputs	Name
14				
57	Fill Factors			
58	Cable			
59	Feeder			
60	0-5	0.65	0.65	Feeder0
61	5-200	0.75	0.75	Feeder5
62	200-650	0.80	08.0	Feeder200
63	650-850	0.80	0.80	Feeder650
64	850-2550	0.80	0.80	Feeder850
65	2550+	0.80	0.80	Feeder2550
66				
67	Distribution			
68	0-5	0.50	0.53	Dist0
69	5-200	0.55	0.53	Dist5
70	200-650	0.60	0.53	Dist200
71	650-850	0.65	0.53	Dist650
72	850-2550	0.70	0.53	Dist850
73	2550+	0.75	0.53	Dist2550
74				
75	EO Switching Parameters			
76	. :			
77	Busy hour call attempts, residential	1.3	1.3	BHCAR
78	Busy hour call attempts, business	3.5	3.5	BHCAB
79	Switch Maximum Line Size	100,000	100,000	MaxLines
80	Switch Maximum Line Fill	0.8	0.8	MaxLineFill
81	Switch Maximum Processor Occupancy	0.9	0.85	MaxProc
82	Processor Feature Loading Multiplier	1	1	FeatureMult
83	Switch Installation Multiplier	1.1	1	InstallMult
84				
85	Switch Parameters			
86	Switch real-time limit, BHCA			
	1 - 1,000	10,000	10,000	BHCA1
88	1,000 - 10,000	50,000	50,000	BHCA2
89	10,000 - 40,000	200,000	200,000	BHCA3
	40,000+	600,000	600,000	BHCA4
91				
	Switch traffic limit, BHCCS			
	1 - 1,000	10,000	10,000	BHCCS1
	1,000 - 10,000	50,000	50,000	BHCCS2
	10,000 - 40,000	500,000	500,000	BHCCS3
	40,000+	1,000,000	1,000,000	BHCCS4
97				

, |

Hatfield Model Sensitivity Analysis SWBT - Texas

13 Input Name Default Inputs	
13 Input Name Default Inputs	ariable
14 98 Switch cost points lines 99 Low line size 2,782 7,703 L 100 Mid line size 11,200 21,062 I 101 High line size 80,000 53,653 H 102 cost/line \$220.00 \$236.00 L 104 Mid line size \$86.00 \$248.00 M 105 High line size \$59.00 \$232.00 H 106 107 Residential Holding Time Multiplier 1.00 1.00 108 Business Holding Time Multiplier 1.00 1.00 109 Busy Hour fraction of daily usage 0.10 0.10 110 Annual to daily usage reduction factor 270.00 319.00 111 Interoffice and Tandem Parameters	Name
98 Switch cost points lines 99 Low line size 2,782 7,703 L 100 Mid line size 11,200 21,062 R 101 High line size 80,000 53,653 F 102 cost/line \$220.00 \$236.00 L 104 Mid line size \$86.00 \$248.00 M 105 High line size \$59.00 \$232.00 F 106 Residential Holding Time Multiplier 1.00 1.00 108 Business Holding Time Multiplier 1.00 1.00 109 Busy Hour fraction of daily usage 0.10 0.10 110 Annual to daily usage reduction factor 270.00 319.00 111 Interoffice and Tandem Parameters	
100 Mid line size 2,782 7,703 L	
100 Mid line size 11,200 21,062 I 101 High line size 80,000 53,653 I- 102 cost/line 103 Low line size \$220.00 \$236.00 L 104 Mid line size \$86.00 \$248.00 M 105 High line size \$59.00 \$232.00 H 106 High line size \$59.00 \$232.00 H 106 Business Holding Time Multiplier 1.00 1.00 108 Business Holding Time Multiplier 1.00 1.00 109 Busy Hour fraction of daily usage 0.10 0.10 110 Annual to daily usage reduction factor 270.00 319.00 111 Interoffice and Tandem Parameters	owSize
101 High line size 80,000 53,653 High line size cost/line 103 Low line size \$220.00 \$236.00 Line 104 Mid line size \$86.00 \$248.00 Mid line size \$59.00 \$232.00 High line size \$59.00 \$232.00 High line size \$59.00 \$232.00 High line size \$59.00 \$1.00 106	MidSize
102	lighSize
103 Low line size \$220.00 \$236.00 L 104 Mid line size \$86.00 \$248.00 M 105 High line size \$59.00 \$232.00 H 106 107 Residential Holding Time Multiplier 1.00 1.00 108 Business Holding Time Multiplier 1.00 1.00 109 Busy Hour fraction of daily usage 0.10 0.10 110 Annual to daily usage reduction factor 270.00 319.00 111 Interoffice and Tandem Parameters	
104 Mid line size \$86.00 \$248.00 Mid line size \$232.00 Mid line size Mid line size \$232.00 Mid line size \$232.00 Mid line size \$232.00 Mid line size Mid line s	.owCost
105High line size\$59.00\$232.00H106107Residential Holding Time Multiplier1.001.00108Business Holding Time Multiplier1.001.00109Busy Hour fraction of daily usage0.100.10110Annual to daily usage reduction factor270.00319.00111Interoffice and Tandem Parameters	MidCost
106107Residential Holding Time Multiplier1.001.00108Business Holding Time Multiplier1.001.00109Busy Hour fraction of daily usage0.100.10110Annual to daily usage reduction factor270.00319.00111Interoffice and Tandem Parameters	lighCost
107 Residential Holding Time Multiplier1.001.00108 Business Holding Time Multiplier1.001.00109 Busy Hour fraction of daily usage0.100.10110 Annual to daily usage reduction factor270.00319.00111Interoffice and Tandem Parameters	
108Business Holding Time Multiplier1.001.00109Busy Hour fraction of daily usage0.100.10110Annual to daily usage reduction factor270.00319.00111Interoffice and Tandem Parameters	resHT
109Busy Hour fraction of daily usage0.100.10110Annual to daily usage reduction factor270.00319.00111Interoffice and Tandem Parameters	busHT
110 Annual to daily usage reduction factor 270.00 319.00 111 Interoffice and Tandem Parameters	BHF
112 Interoffice and Tandem Parameters	UsRed

113	
	OpFrac
	nterFrac
	rectFrac
	unkCCS
	erminy
119 Average Direct Route Distance, miles 10 9	Miles
	unkFrac
121	
122 Toll traffic inputs	
	ndLATA
	ATAdist
	dAccess
126 Average direct access route distance, mi. 15 17 Ac	cessdist
127	
128	
129 Tandem Switching parameters	
	ndBHCA
	ortlimit
	dcominv
	xtrunkfill
	dmaxocc
	dintercept
136	